COMMISSION BRIEFING SLIDES/EXHIBITS

BRIEFING ON RADIOACTIVE SOURCE SECURITY EXPERIENCE WITH NSTS

APRIL 23, 2009

Briefing on Radioactive Source Security Experience with NSTS

23 April 2009
Kate Roughan
Director, Regulatory Affairs
Quality Assurance
QSA Global Inc

QSA Global Inc

- Worldwide manufacturer and distributor of radioactive sources for use in industrial, medical and research applications
- Ship approximately 10,000 Cat 2 radioactive sources annually

- History
 - No industry involvement even after repeated offers and requests by industry since 2006
 - -No batch upload capability
 - No pilot program testing with users
 - No access to online NSTS when system went live

- Experience
 - Credentialing lengthy, difficult process (photos, notary required)
 - Credentialing not covered under rule making
 - What is its enforceability?
 - Regulatory burden not estimated
 - Private personal information required

Experience

- Very time consuming, due to large number of daily transactions (100-150) QSA generates automatic faxes for NRC data entry (100 faxes daily)
- No advantage for licensee to access NSTS web interface, using the fax, phone, mail or email is easier
- NSTS not up to date, not real time

Experience

- Inventory reconciliation will be difficult as NSTS not up to date and unclear if all licensees entering data
- Due to a loosely defined NSTS when the comments for Cat 1 and 2 were made, cost estimates for implementation could not be and were not accurate
- To date QSA > \$100,000

- Recommendations
 - Determine regulatory status of credentialing requirement
 - Remove duplicative requirements, import/export notifications (10 CFR 110) and verification of receipt at end user by shipper (M&D ASM Order)
 - Determine logical plan to retrofit the large amount of transactions not currently in NSTS or have potential errors

- Recommendations
 - Implement batch upload capability
 - Consider tiered access to NSTS, ie M&D licensees have ability for direct "data dump" into NSTS without any manual intervention
 - NSTS immediately populated
 - Minimum involvement of NRC/licensee

- Recommendations
 - Involve actual users/licensees in process – need real world input for any rule to be effective
 - Industry on Change Control Board
 - Run pilot programs with users
 - WBL and LVS must understand actual process and involve licensees early in proposals and development to get accurate inputs

- Recommendations
 - Complete a full re-evaluation for inclusion of Cat 3 and 1/10 Cat 3
 - perform accurate regulatory burden analysis based on real information from implementation for Cat 1 and Cat 2
 - many potential users not aware of requirement, results in more unreported transactions and erroneous results
 - QSA 15,000 to 20,000 additional transactions annually

Beginning to see NRC involving industry

Positive support of NRC help desk personnel

Thank You

? Questions?



Briefing on Radioactive Source Security

April 23, 2009

Charles L. Miller, Director

Office of Federal and State Materials and
Environmental Management Programs

Major Accomplishments Since April 2008

- NSTS Deployment
- Fingerprinting Requirements
- CsCl Public Workshop and Commission Paper
- Completed Assessment of Materials Security Programs

Overview and Radioactive Materials Security and Control Enhancements

Robert J. Lewis, Director

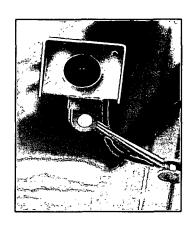
Division of Materials Safety and State

Agreements/FSME

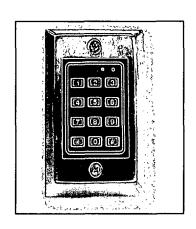
Overview

- Radioactive Materials Security and Control Enhancements
- Interagency and International Coordination
- Integrated Source Management

Radioactive Materials Security and Control Enhancements







Progress on Security Orders

- Increased Controls
- Fingerprinting
- Training Program
- Irradiator, M&D, and RAMQC
 Transport Re-Inspections

Cesium Chloride

- CsCl Public Workshop
- Visits to Manufacturers
- Irradiator Hardening Pilot Project
- SRM SECY 08-184 "Strategy for the Security and Use of CsCl Sources"

Organization of Agreement States' Views

Julia A. Schmitt, Manager
Office of Radiological Health/Nebraska
Department of Health and Human
Services
and
Chair, OAS

OAS Views

- Increased Controls and Fingerprinting
- Prioritization and Working Groups
- NSTS and WBL

Interagency and International Coordination Radiation Source Protection and Security Task Force

Kim K. Lukes, Health Physicist Source Management and Protection Branch/MSSA/FSME

Radiation Source Protection and Security Task Force

- Primary vehicle for advancing source security issues across the government
- 2010 report to the President and Congress
- Routine status update meetings

Major Subgroup Accomplishments

- Radiation Sources Subgroup
- CsCl Subgroup
- Public Education Subgroup

Ongoing Efforts

- Alternative Technologies
 Subgroup
- Evaluation of Financial Assurance Working Group

Interagency and International Coordination Other Coordination Efforts

Richard P. Correia, Director

Division of Security Policy/Office of

Nuclear Security and Incident

Response

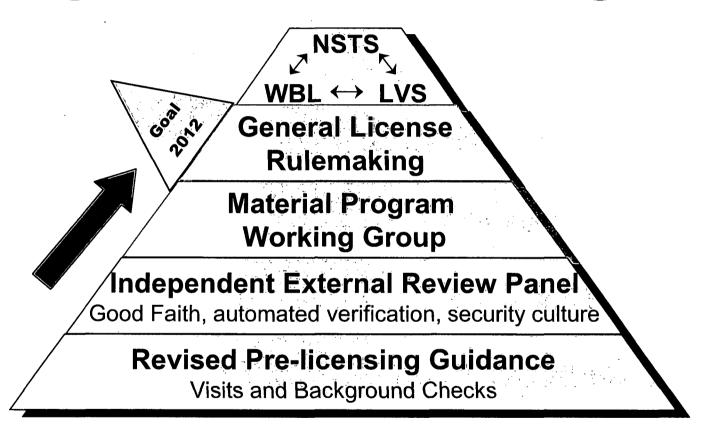
Other Coordination Efforts

- Nuclear Government Coordinating Council
- NRC/DHS/NNSA Trilateral Activities
- International Security Standards

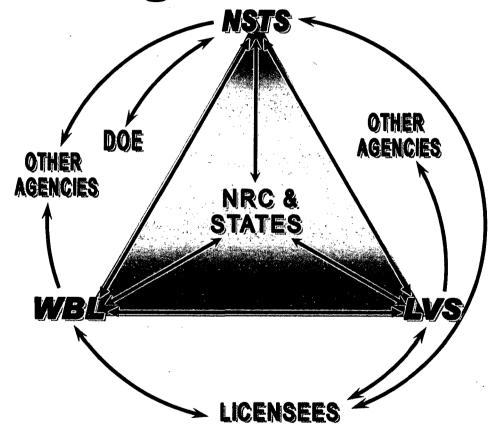
Integrated Source Management Vision, WBL, and LVS

Terrence Reis, Deputy Director National Materials Program Directorate/MSSA/FSME

Integrated Source Management



Integrated Source Management-Vision



WBL Status

- Replacement of License Tracking System for Materials Licensing
- Nationwide License Repository
- Coordination with Agreement
 States Working Group
- Proceeding with Selected Alternative

LVS Status

- Automated Verification Checks Using WBL and NSTS Data
- Users: Regulators, Government Agencies, Distributors/Licensees
- Initial Deployment in FY11

Integrated Source Management NSTS and Related Security Rulemakings

Merri L. Horn, Sr. Project Manager Rulemaking Branch B/Division of Intergovernmental Liaison and Rulemaking/FSME

NSTS Overview

- Available to licensees for use on January 5, 2009
- Users of Category 1 and 2 radioactive sources reporting inventories and transactions

NSTS Status

- Deployment Activities
- NSTS Use
- Outreach

NSTS Next Steps

- Inspection and Enforcement
- Future Enhancements
- Expansion of NSTS

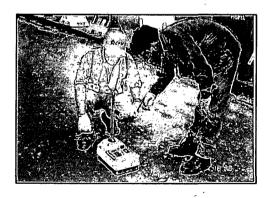
Related Security Rulemakings

- 10 CFR Part 37 Rulemaking
 - Physical Security
 - Transportation Security
 - Background
 Investigations/Access Control

Vision and Future of the Materials Security Arena

Charles L. Miller, Director
Office of Federal and State Materials
and Environmental Management
Programs





Acronyms

- ACMUI Advisory Committee on Medical Use of Isotopes
- CsCl Cesium Chloride
- DHS Department of Homeland Security
- DNDO Domestic Nuclear Detection Office
- DOE Department of Energy
- FSME Office of Federal and State Materials and Environmental Management Programs
- GAO Government Accountability Office
- GL General License

Acronyms

- IAEA International Atomic Energy Agency
- IERP Independent External Review Panel
- IICWG Implementation of Increased Controls Working Group
- IMPEP Integrated Materials Performance Evaluation Program
- LVS License Verification System
- M&D Manufacturer and Distributor
- MPKI Managed Public Key Infrastructure
- MPWG Materials Program Working Group
- MSSA Materials Safety and State Agreements

Acronyms

- NGCC Nuclear Government Coordinating Council
- NNSA National Nuclear Security Administration
- NRC Nuclear Regulatory Commission
- NSTS National Source Tracking Systems
- RAMQC Radioactive Materials Quantities of Concern
- RDD Radiological Dispersal Device
- RED Radiological Exposure Device
- SRM Staff Requirements Memorandum
- WBL Web-Based Licensing